

## CLAIMS

1. An FM receiver which can be used by being switched between stereophonic and monophonic, comprising:
- 5 detecting unit for detecting a received signal;  
two routes over which a detected signal is transmitted to an output buffer;  
switching unit for selecting either one of the two routes, wherein:
- 10 the two routes comprise a route via a stereophonic demodulator unit and a route bypassing the stereophonic demodulator unit; and  
the switching unit selects either one of the two routes based on a control signal indicating the selection of either one of the stereophonic and the monophonic,
- 15 and turns off electric power supply to the stereophonic demodulator unit based on the control signal when the route bypassing the stereophonic demodulator unit is selected.
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2. The FM receiver according to claim 1, wherein:  
the switching unit switches in accordance with an external switching instruction provided by a user.
- 25 3. The FM receiver according to claim 1, further

comprising:

comparison unit for comparing a strength of the received signal with a reference value, wherein:

5 the switching unit selects the route via the stereophonic demodulator unit when the received signal is higher than the reference value, and/or selects the route bypassing the stereophonic demodulator unit when the received signal is equal to or lower than the reference value, based on an output signal of the comparison unit.

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4. The FM receiver according to claim 2 or 3, wherein:

the stereophonic demodulator unit turns off electric power supply to the stereophonic demodulator unit when the route via the stereophonic demodulator unit is selected based on the switching instruction provided by the user or the output signal of the comparison unit.

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5. The FM receiver according to claim 4, wherein:

20 the stereophonic demodulator unit comprises a circuit portion related to electric supply that can turn off one of a transistors forming a differential pair with an upstream transistor constituting multiple stages when a signal causing the upstream transistor constituting multiple stages to be turned on is provided

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to the upstream transistor; and

electric power supply to the stereophonic demodulator unit is turned off by turning on the upstream transistor of the circuit portion by the control signal.

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6. The FM receiver according to claim 1, wherein:  
the switching unit are arranged at points which are after a branch of the route via the stereophonic demodulator unit and the route bypassing the stereophonic demodulator unit and which are close to the branch, and  
10 also arranged at points which are before a joining point of the route via the stereophonic demodulator unit and the route bypassing the stereophonic demodulator unit and which are close to the joining point.

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7. The FM receiver according to claim 1, wherein:  
it is further possible to turn off both the route via the stereophonic demodulator unit and the route bypassing the stereophonic demodulator unit in the  
20 switching by the switching unit.